



PO Box 32 ▾ 105 Liberty Street ▾ Winona, MN 55987 ▾ Phone: 800-533-0027 or 507-454-5640 ▾ Fax: 507-454-5641

**FOR CHEMICAL EMERGENCY**  
Involving Shipping and Handling Spills, Leak, Fire, Exposure or Accident  
Call CHEMTREC 1-800-424-9300

Complies with OSHA's Hazard Communication Standard 29 CFR 1910.1200

**Section 1 - Product Identification**

Product Name: LFD® Detergent, all sizes

Product ID: 2101X

**Section 2 - Composition/Information on Ingredients**

CHEMICAL NAME	CAS REG. #
Methyl-oxirane polymer with oxirane	9003-11-6
Glycolic Acid	79-14-1

*Other ingredients are judged to be non-hazardous, their CAS numbers and their exact percent of composition are proprietary to National Chemicals, Inc.*

**Section 3 - Hazardous Identification**

**EMERGENCY OVERVIEW:** WARNING! CORROSIVE. Will cause eye, skin and respiratory tract irritation. Use with local exhaust ventilation. Wear a NIOSH-certified (or equivalent) organic vapor/particulate respirator. Wear NIOSH-certified chemical goggles. Wear chemical resistant protective gloves. Avoid contact with the skin, eyes and clothing.

**Section 4 - First Aid Measures**

**EYES:** Immediately flush with water for at least 15 minutes, lifting the upper and lower eyelids intermittently. Get medical attention immediately.

**SKIN:** Immediately flush skin with plenty of water. Remove contaminated clothing. Cover the irritated skin with an emollient. Get medical attention immediately.

**INGESTION:** Rinse mouth and then drink plenty of water. Do not induce vomiting. Never give anything by mouth to an unconscious person. Get medical attention immediately.

**INHALATION:** Remove to fresh air. Seek medical attention.

**Section 5 - Fire Fighting Measures**

**FLASH POINT:** approx. > 419° C (ASTM D92)

**AUTO-IGNITION:** No data available.

**SUITABLE EXTINGUISHING MEDIA:** water, dry extinguishing media, foam

**UNSUITABLE EXTINGUISHING MEDIA FOR SAFETY REASONS:** carbon dioxide

**HAZARDS DURING FIRE-FIGHTING:** No particular hazards known.

**NFPA HAZARD CODES:** Health : 1 Fire: 1 Reactivity: 0 Special:

**Section 9 - Accidental Release Measures**

**PERSONAL PRECAUTIONS:** Wear appropriate respiratory protection. Use personal protective clothing. Ensure adequate ventilation. Avoid contact with the skin, eyes and clothing.

**ENVIRONMENTAL PRECAUTIONS:** This product is not regulated by RCRA. This product is not regulated by CERCLA (Superfund).

**CLEANUP:** Spills should be contained, solidified, and placed in suitable containers for disposal.

**FOR SMALL AMOUNTS:** Pick up with absorbent material (e.g. sand, sawdust, general-purpose binder). Dispose of absorbed material in accordance with regulations.

**Section 7 - Handling and Storage**

**HANDLING:** Avoid contact with eyes, skin and clothing. Wash thoroughly after handling.

**STORAGE:** Keep container tightly closed. Store in cool, dry area, away from acids.

**Section 8 - Exposure Controls / Personal Protection**

**ENGINEERING CONTROLS:** Provide local exhaust ventilation to control vapors/mists.

**EYES AND FACE:** Appropriate eye and face protection equipment (ANSI Z87 approved) should be selected for the particular use intended for this material. Safety glasses with side shields are recommended.

**RESPIRATORY:** Wear respiratory protection if ventilation is inadequate.

**HAND PROTECTION:** Chemical resistant protective gloves.

**Section 9 - Physical and Chemical Properties**

ODOR: mild of polyol  
FLASH POINT: Non-combustible  
ODOR THRESHOLD: not applicable  
PERCENT VOLATILE: not applicable  
VAPOR DENSITY: not applicable

COLOR: Colorless to light yellow.  
FREEZING POINT: -10° C  
SOLUBILITY: Easily soluble in cold water  
EVAPORATION RATE: not applicable  
VAPOR PRESSURE: not applicable

**Section 10 - Stability and Reactivity**

STABILITY: The product is stable.  
CONDITIONS TO AVOID: No data available.  
INCOMPATIBILITY: Reactive with oxidizing agents, alkalis.  
THERMAL DECOMPOSITION: No data available.

**Section 11 - Toxicological Information**

Very hazardous in case of skin contact (irritant), of ingestion,  
Hazardous in case of skin contact (corrosive), of eye contact (corrosive), of inhalation (lung corrosive).

**Section 12 - Ecological Information**

ECOTOXICITY: Not available.  
BOD5 AND COD: Not available.

**Section 13 - Disposal Method**

DISPOSAL METHOD: As purchased, this product is not a listed hazardous waste according to US Federal RCRA regulations (40 CFR 261). Non-hazardous waste may be disposed of in a landfill in accordance with government regulations.

**Section 14 - Transportation Information**

US DOT: not regulated  
INTERNATIONAL MARITIME DANGEROUS GOODS (IMDG): not regulated

**Section 15 - Regulatory Information**

TSCA INVENTORY STATUS (40 CFR 710): Methyl-oxirane polymer with oxirane and Glycolic acid are listed.

**Section 16 - Other Information**

HMIS RATING: Health: 1 Flammability: 1 Physical Hazard: 0  
SUPERCEDES DATE: January 1, 2005

*The information and recommendations in this Material Safety Data Sheet are based upon data believed to be correct and does not relate to its use in combination with any other material or process. Since use conditions vary, we assume no liability for failure to follow product use direction and safety precautions. As data, standards and regulations change; NO WARRANTY, EXPRESS OR IMPLIED, IS MADE AS TO THE COMPLETENESS OR CONTINUING ACCURACY OF THIS INFORMATION.*